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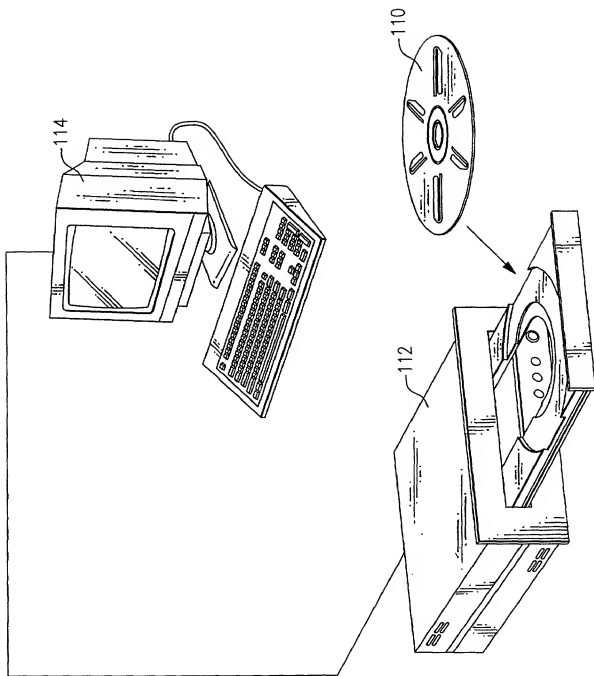
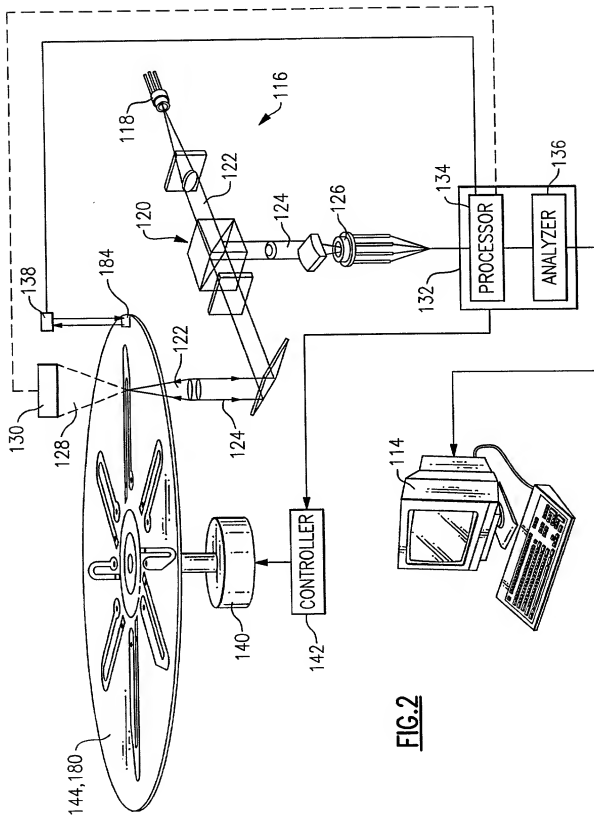


FIG. 1

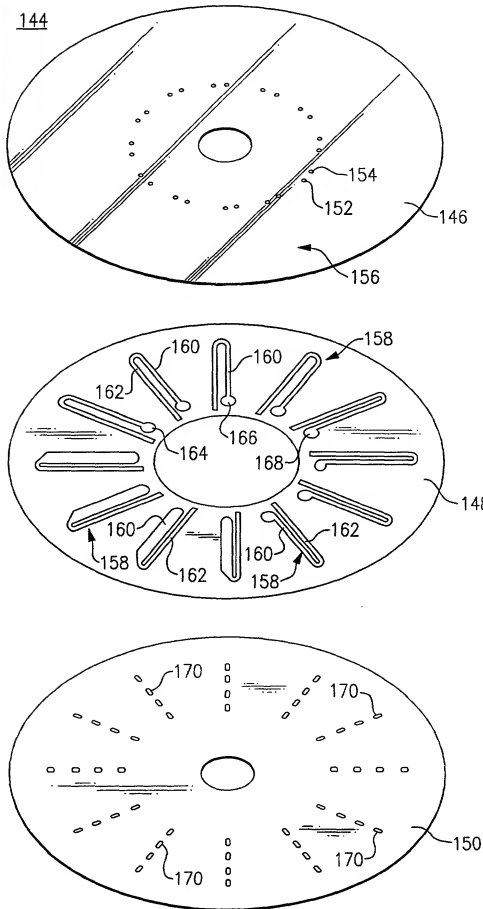
I certify that this document was submitted to the U.S.
 Patent and Trademark Office using U.S. Express
 Mail # EL9234847431/S
 Jacquelyn Campbell

Print Name: Jacquelyn Campbell
 Signature: [Signature] Date: February 26, 2002



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FIG. 3A



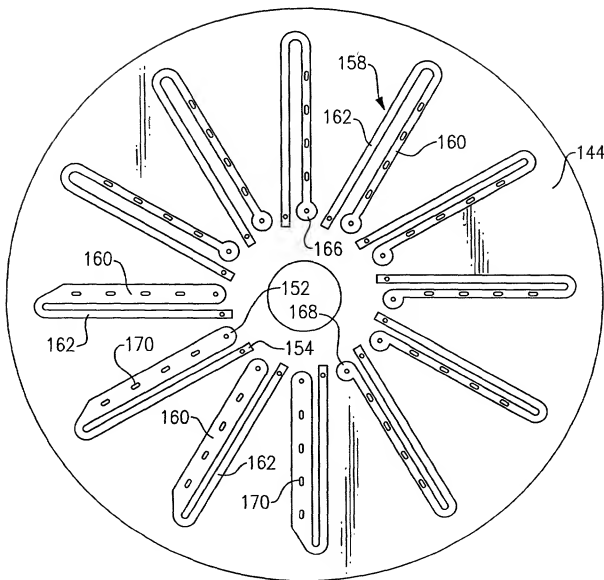


FIG.3B

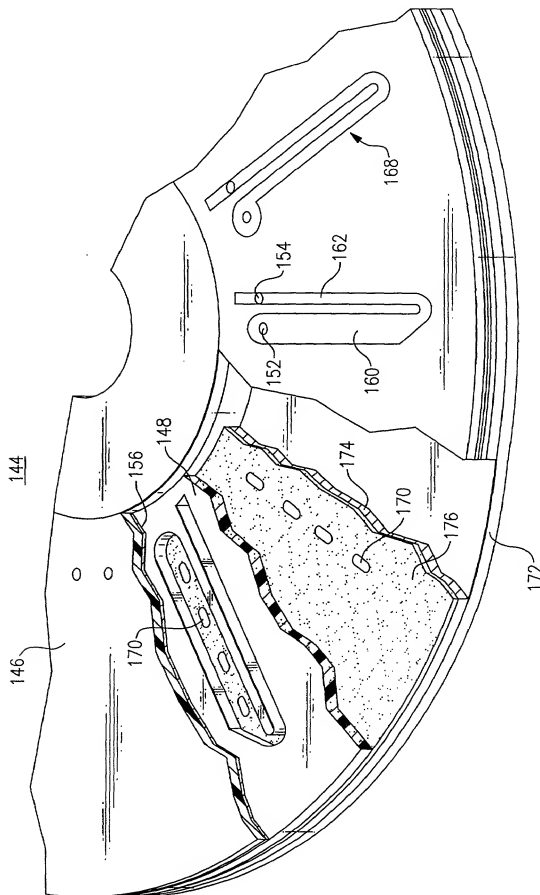
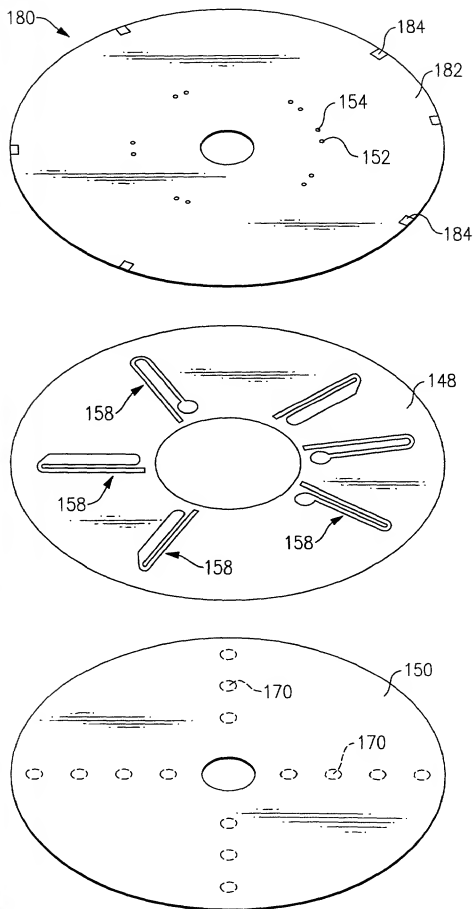


FIG. 3C

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FIG. 4A



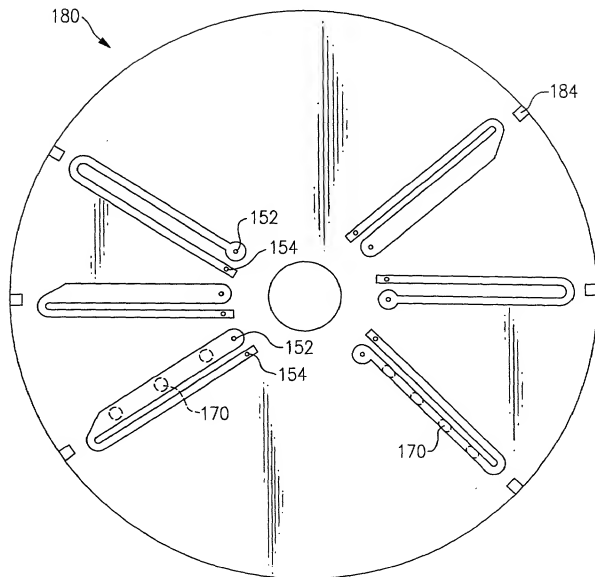


FIG. 4B

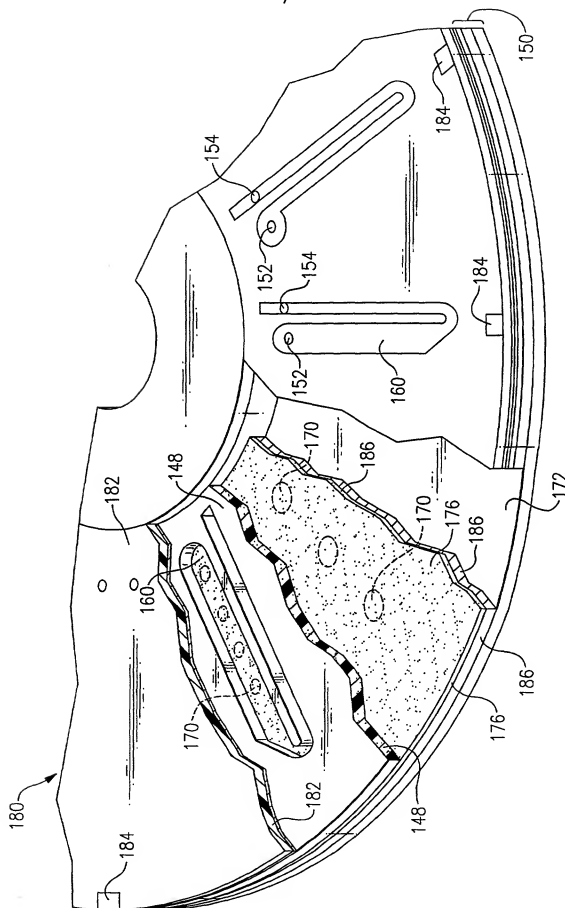


FIG. 4C

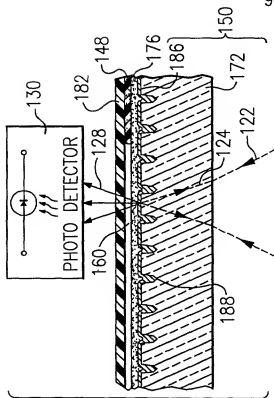


FIG. 5B

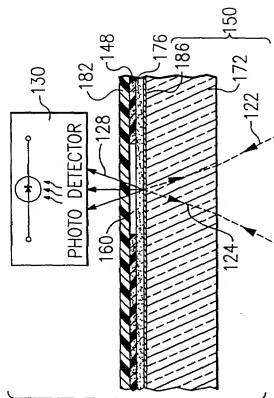


FIG. 6B

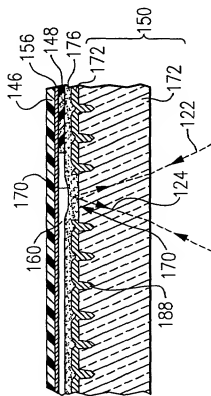


FIG. 5A

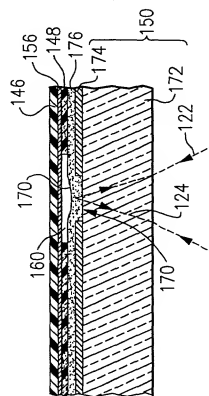


FIG. 6A

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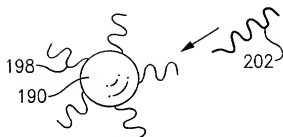


FIG. 7A

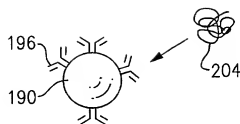


FIG. 7B



FIG. 8A

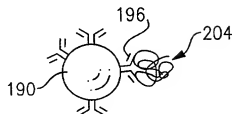


FIG. 8B

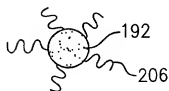


FIG. 9A

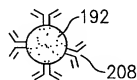


FIG. 9B

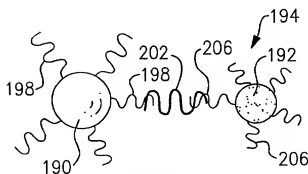


FIG. 10A

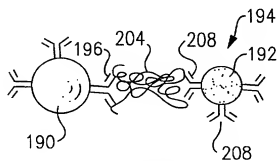


FIG. 10B

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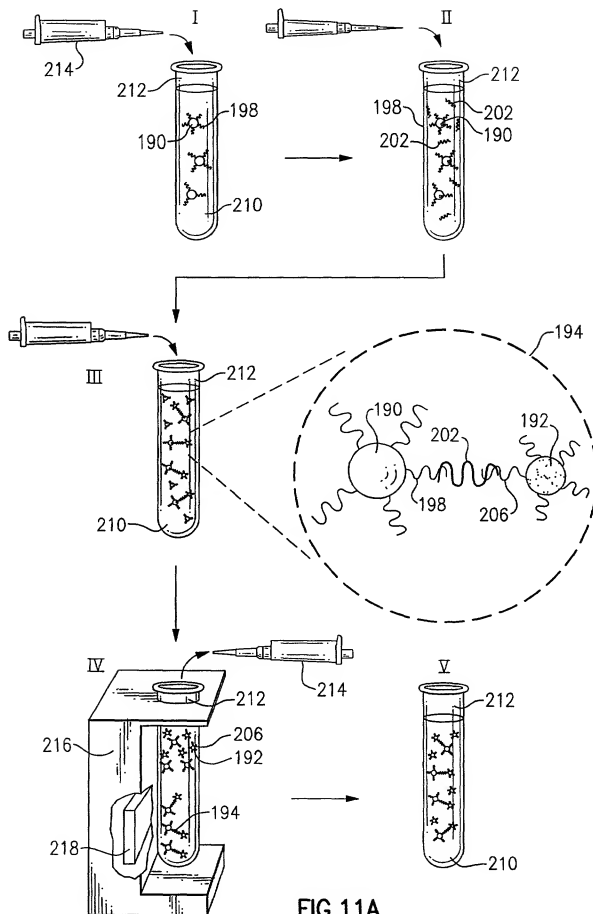


FIG. 11A

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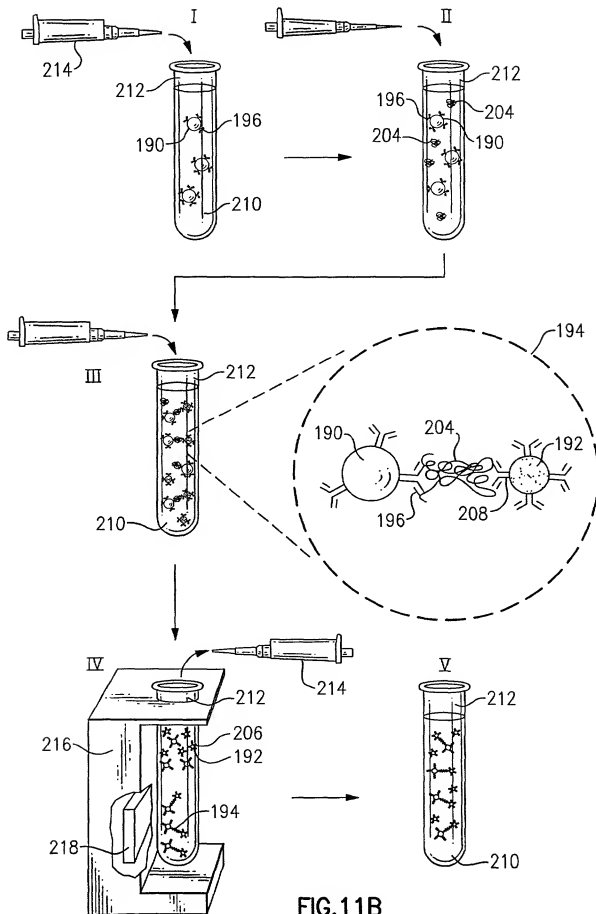


FIG.11B

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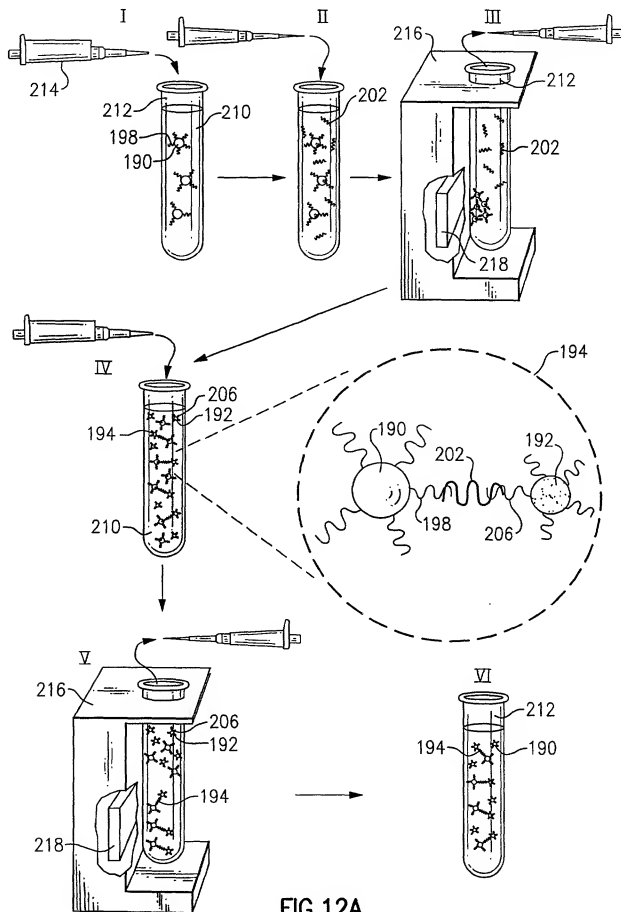


FIG. 12A

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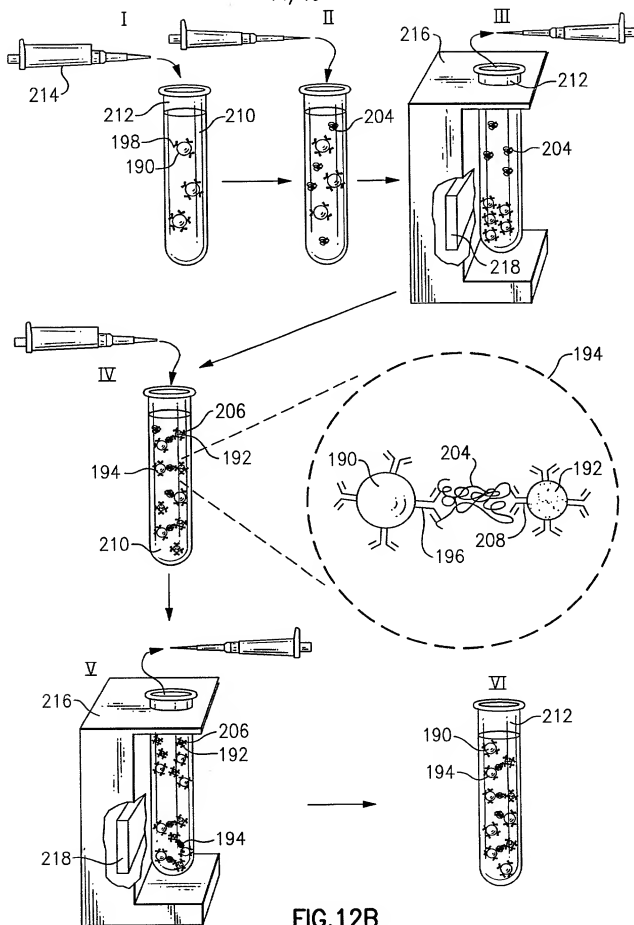


FIG. 12B

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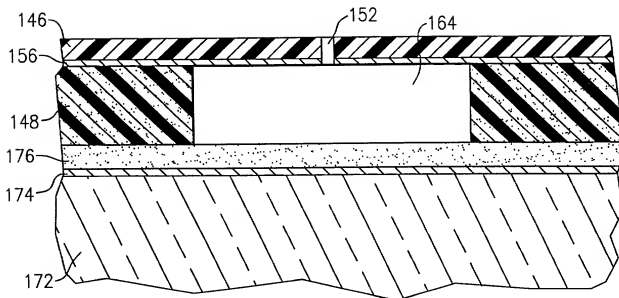


FIG. 13

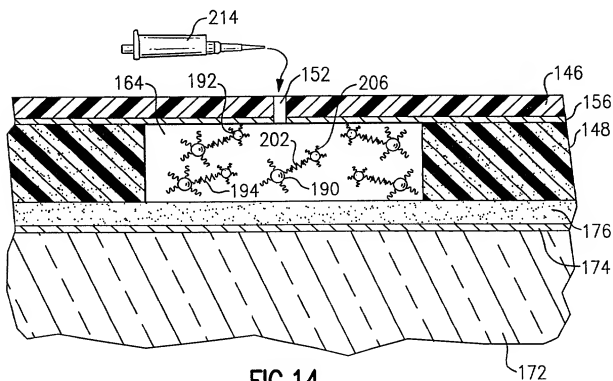


FIG. 14

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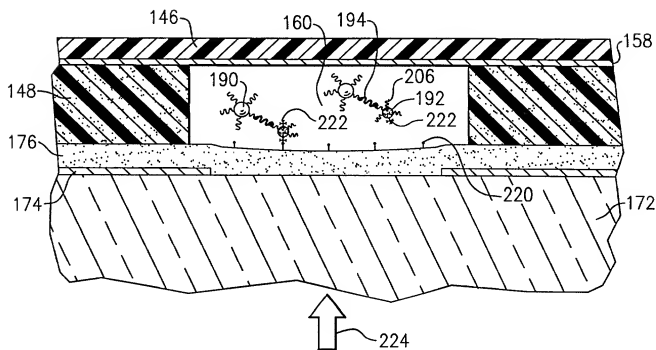


FIG.15A

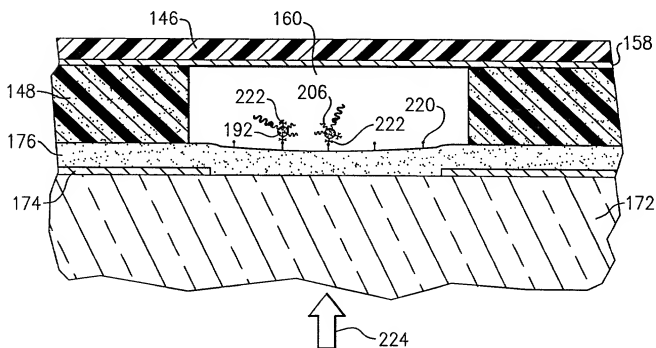


FIG.15B

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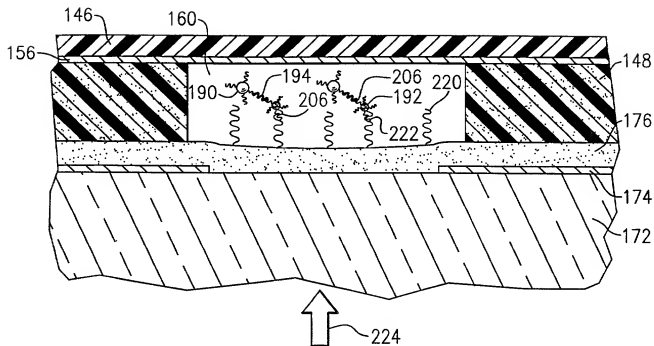


FIG. 16A

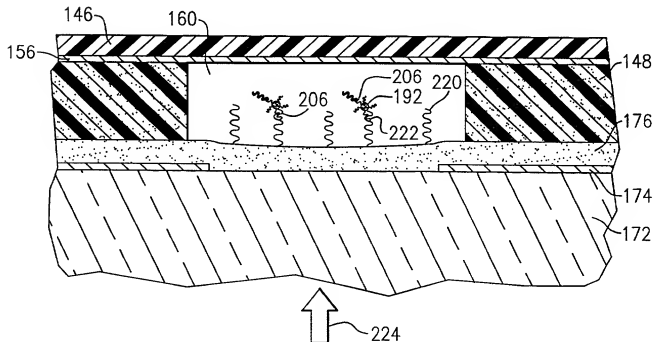


FIG. 16B

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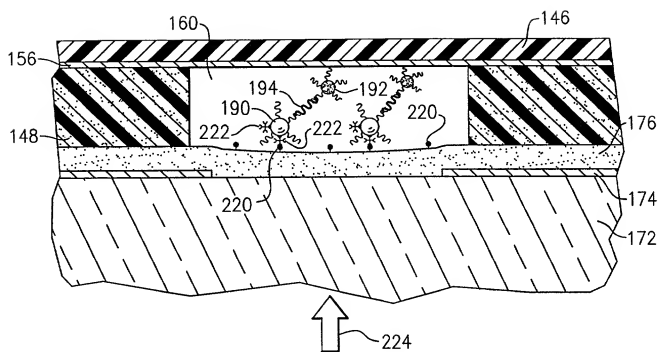


FIG. 17

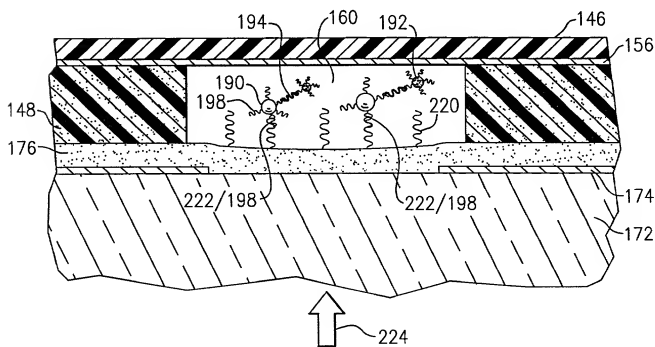
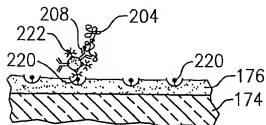
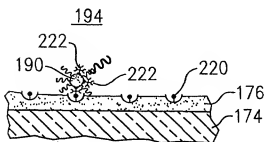
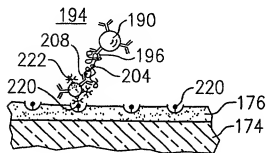
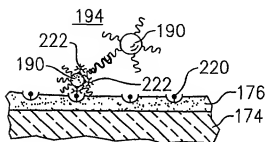
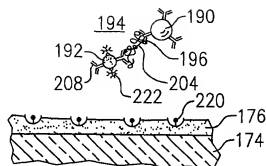
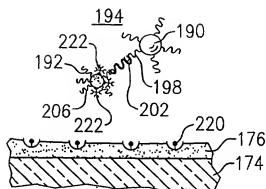


FIG. 18



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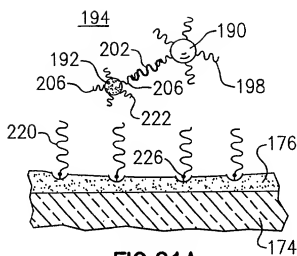


FIG. 21A

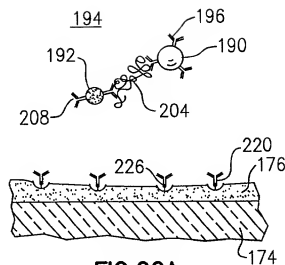


FIG. 22A

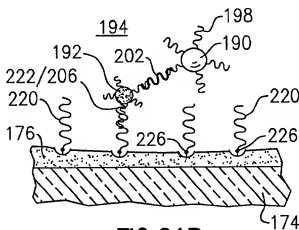


FIG. 21B

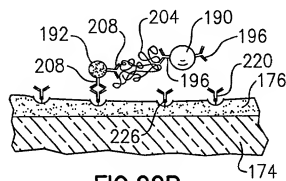


FIG. 22B

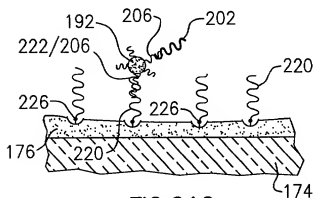


FIG. 21C

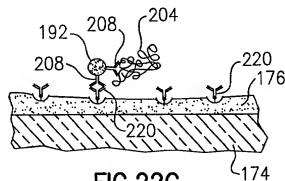


FIG. 22C

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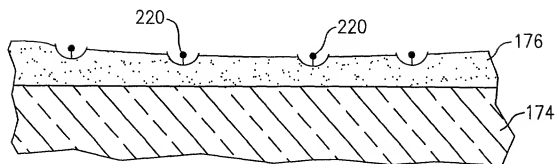
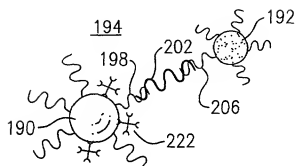


FIG.23A

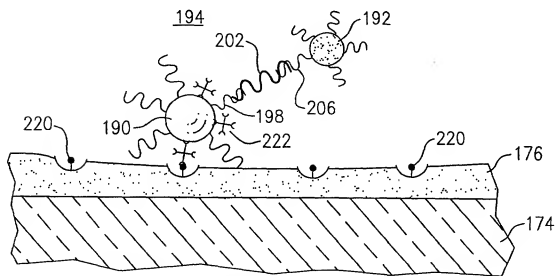


FIG.23B

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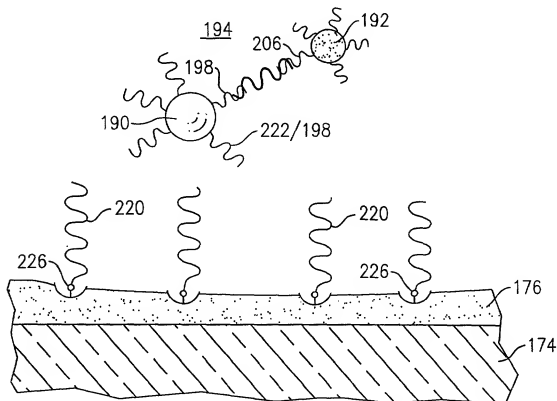


FIG. 24A

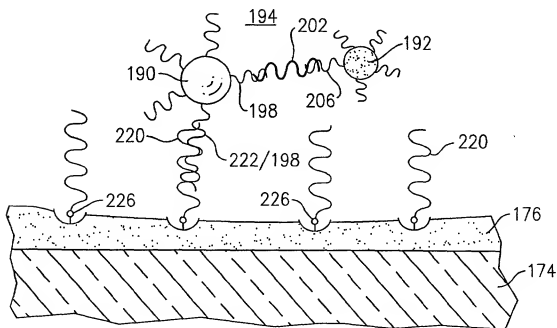


FIG. 24B

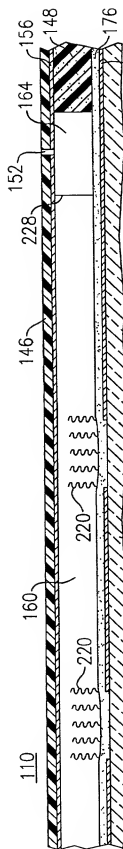


FIG. 25A

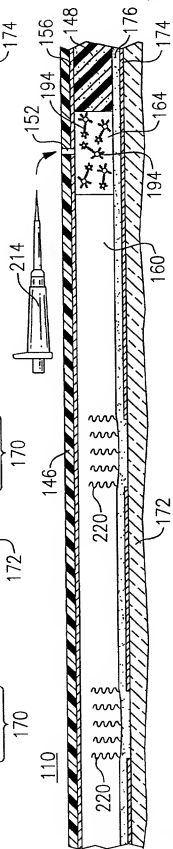


FIG. 25B

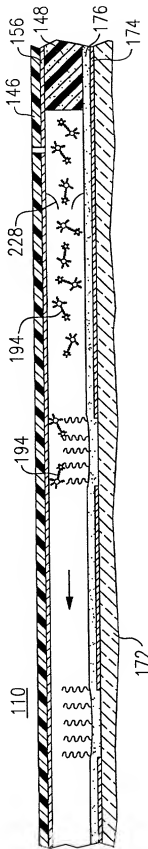


FIG. 25C

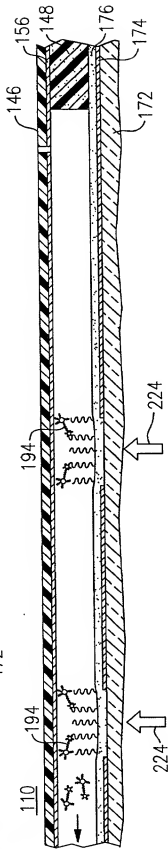


FIG. 25D

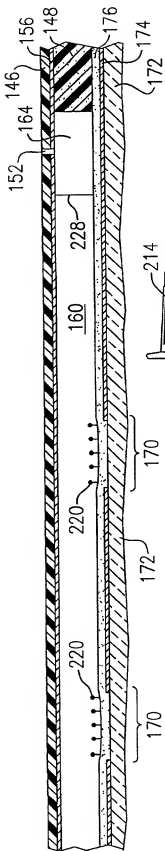


FIG. 26A

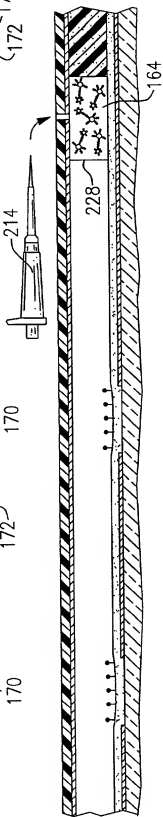


FIG. 26B

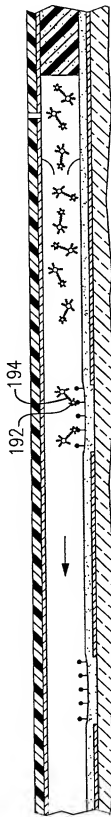


FIG. 26C

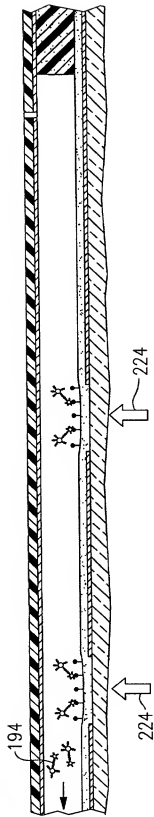


FIG. 26D

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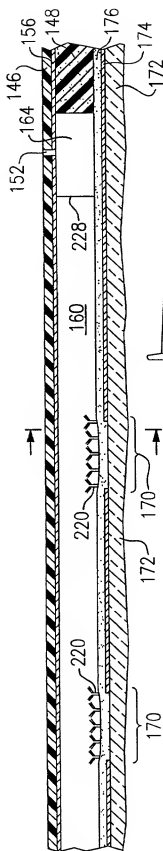


FIG. 27A

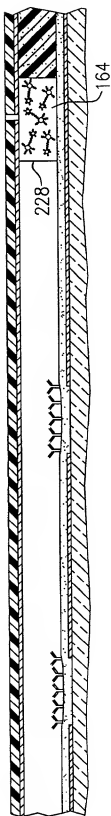


FIG. 27B

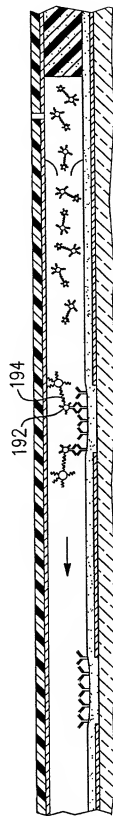


FIG. 27C

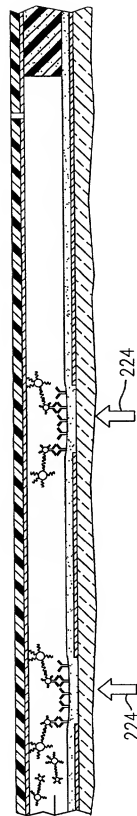


FIG. 27D

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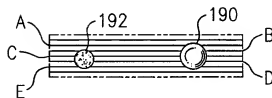


FIG.28A

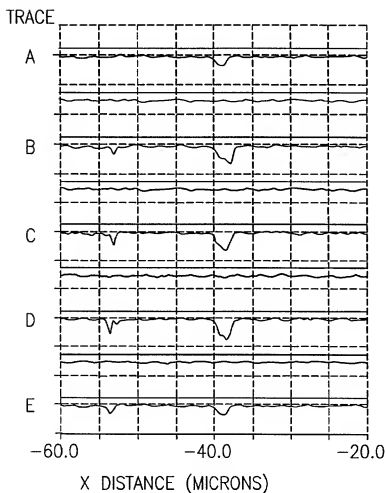


FIG.28B

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FIG.29A

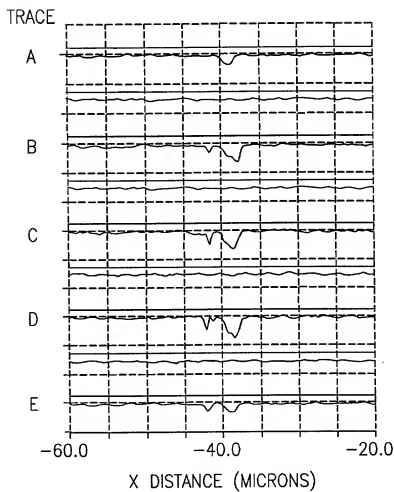
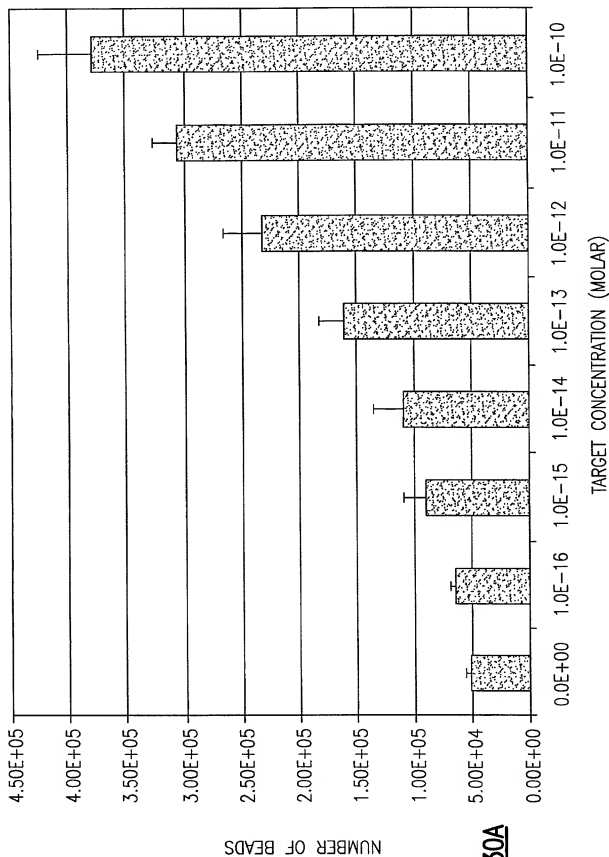


FIG.29B

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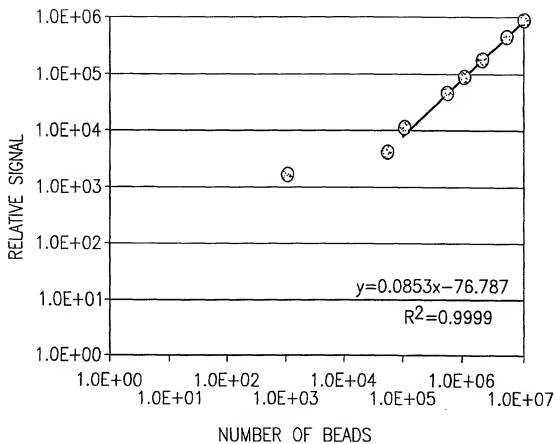


FIG.30B

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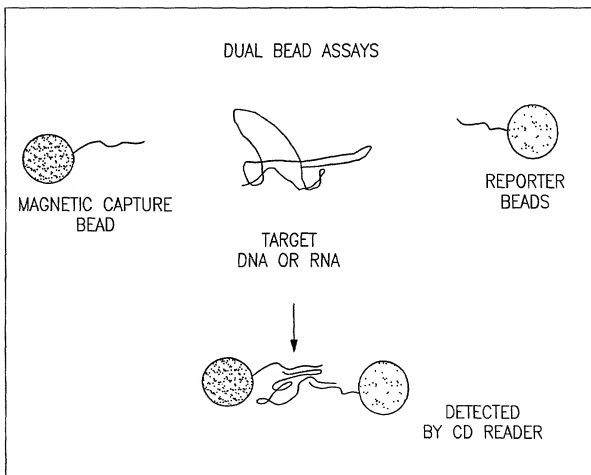


FIG.30C

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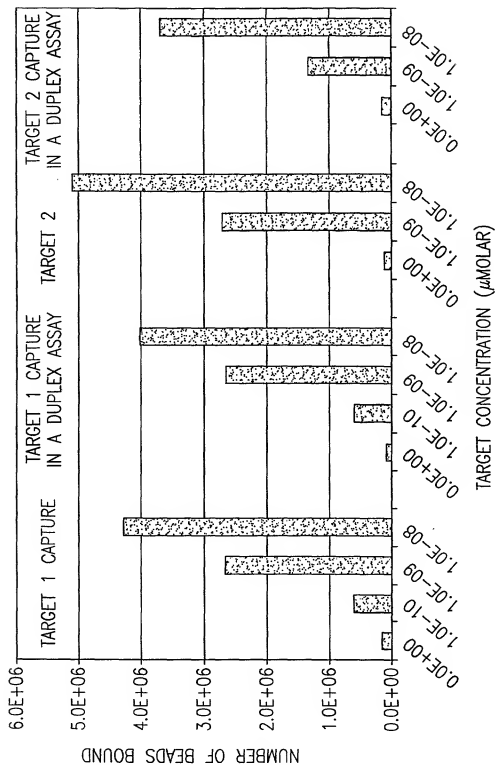


FIG.31

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DUAL BEAD ASSAY MULTIPLEXING

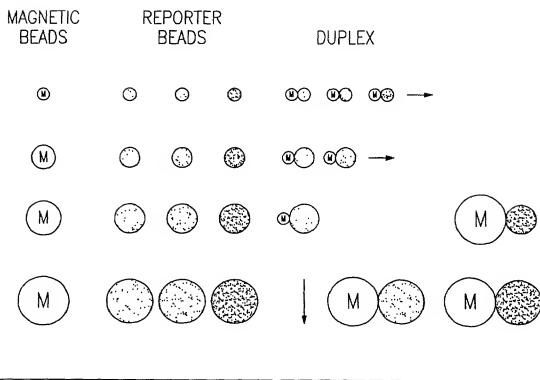


FIG.32

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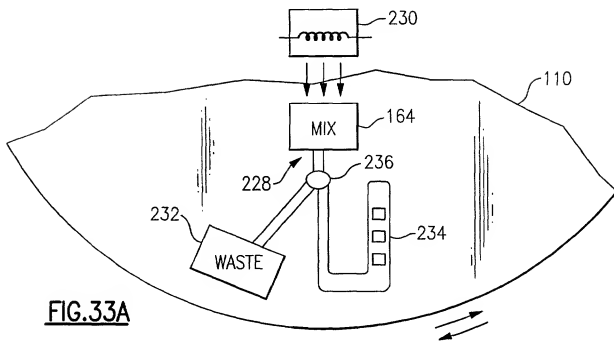


FIG. 33A

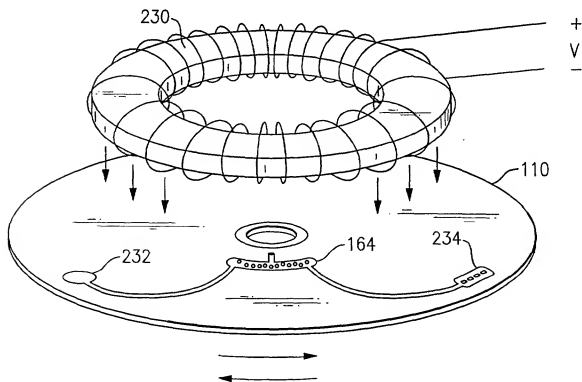
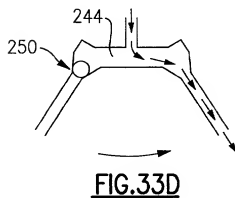
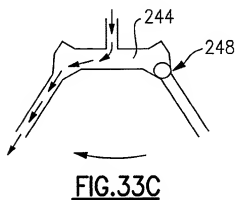
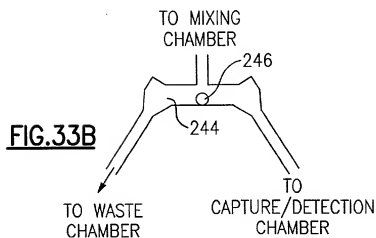


FIG. 35

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FIG.34A

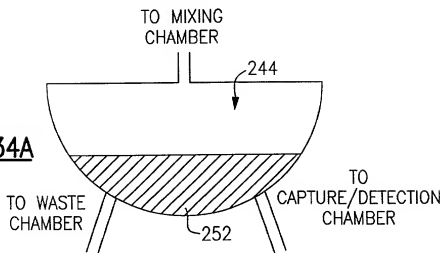


FIG.34B

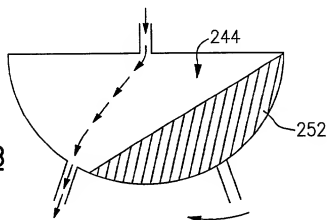
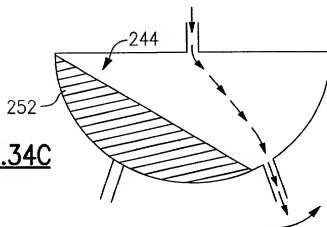


FIG.34C



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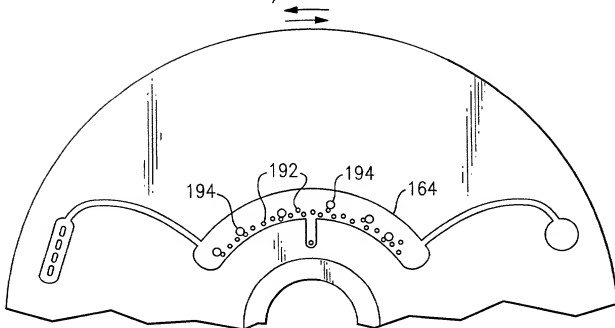


FIG. 36A

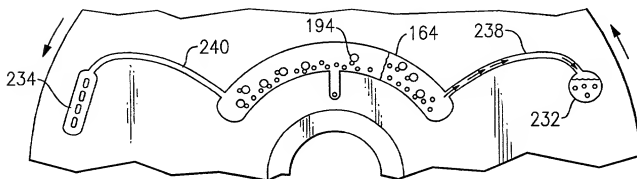


FIG. 36B

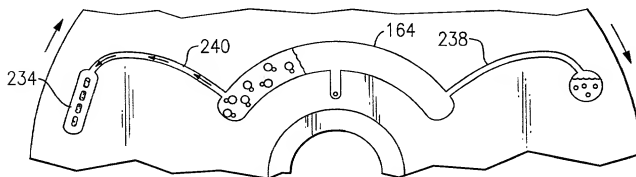


FIG. 36C

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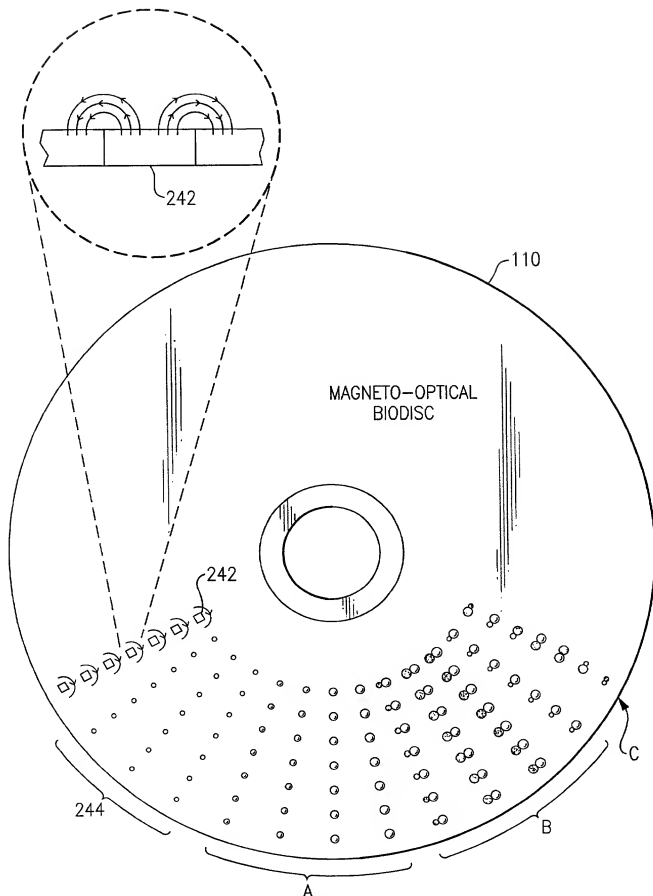
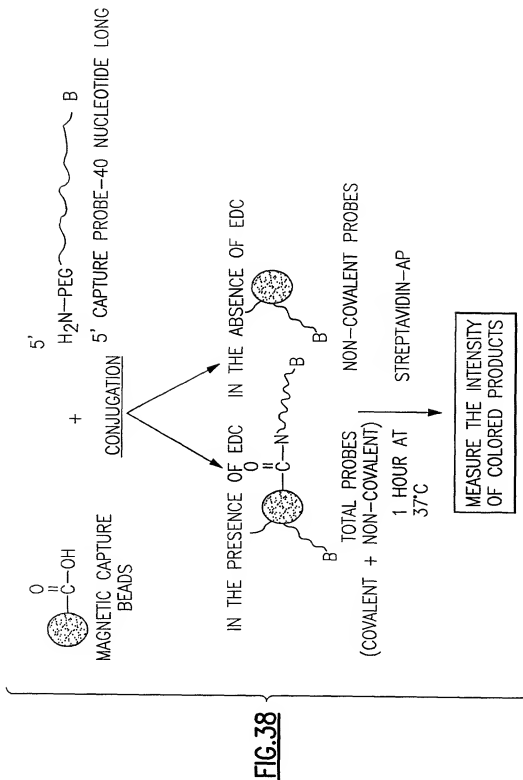


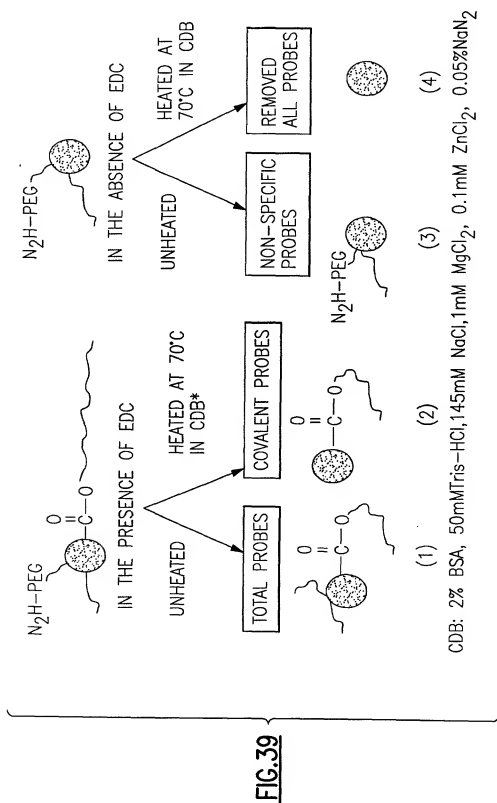
FIG. 37

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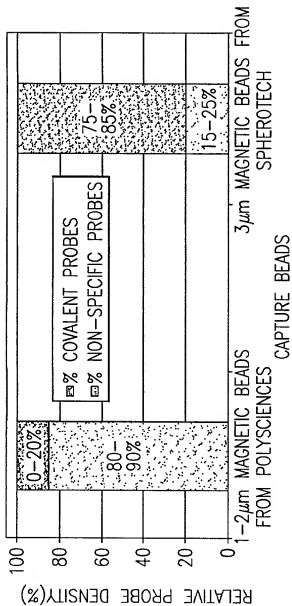


FIG. 40A

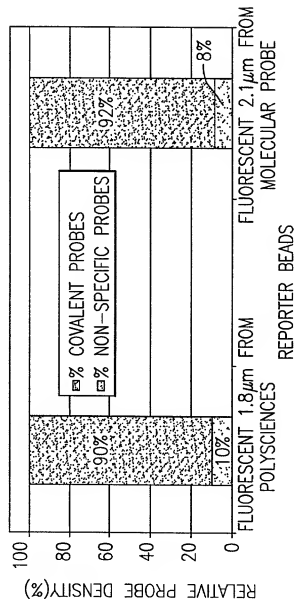


FIG. 40B

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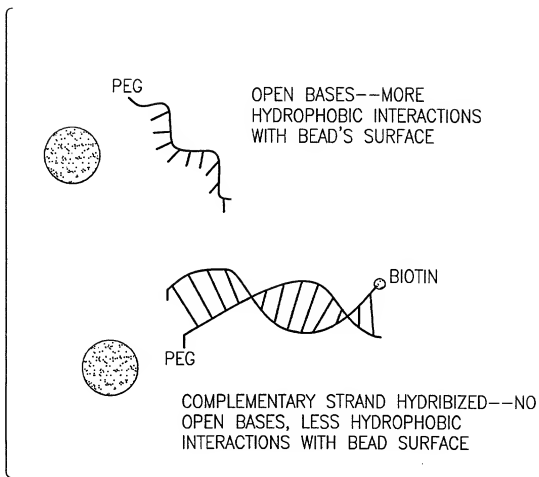
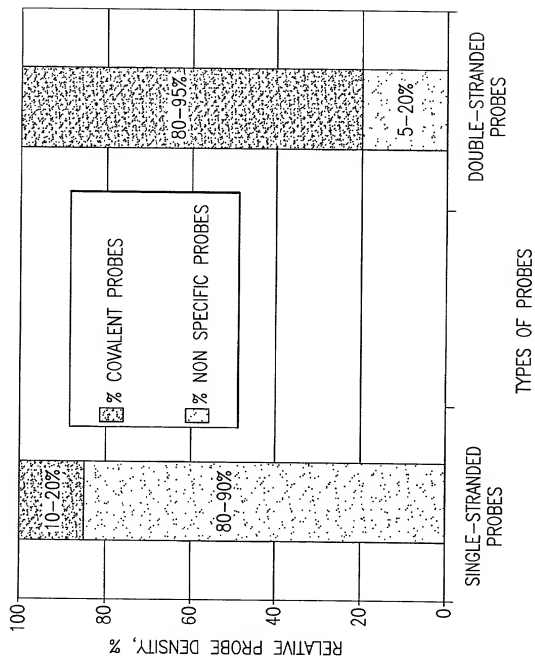


FIG.41A



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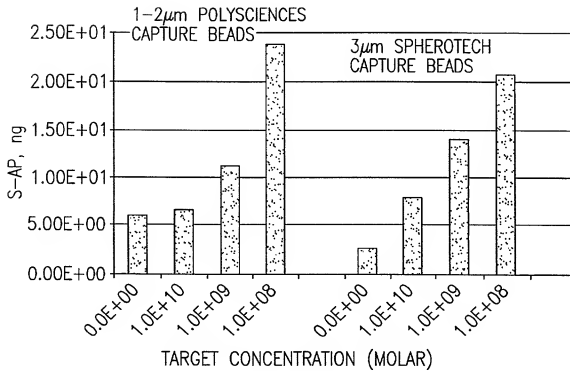


FIG.42A

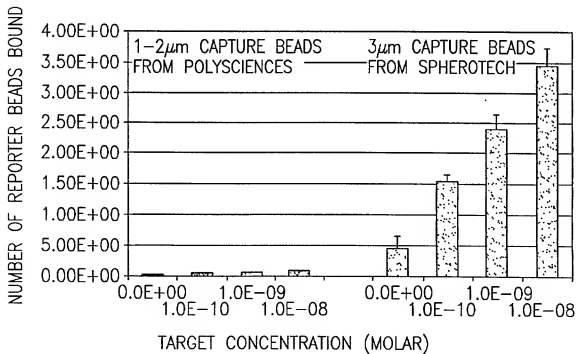


FIG.42B

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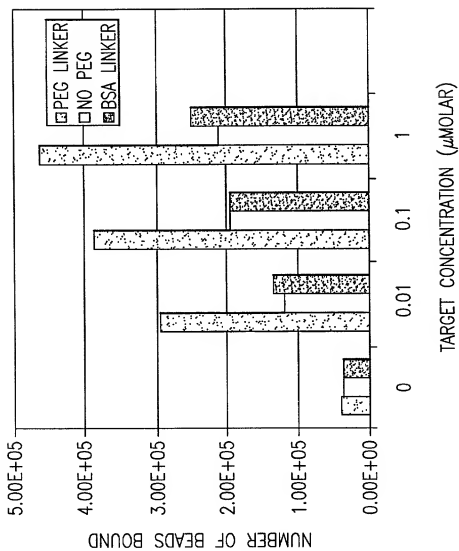


FIG. 43

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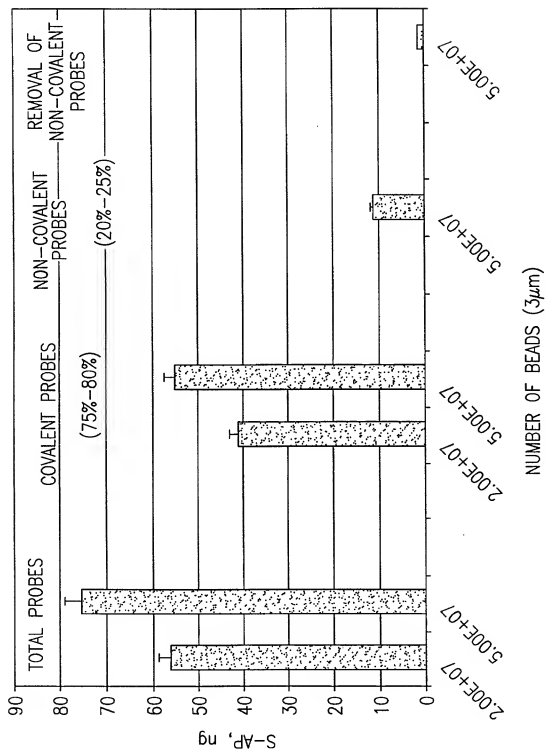


FIG.44

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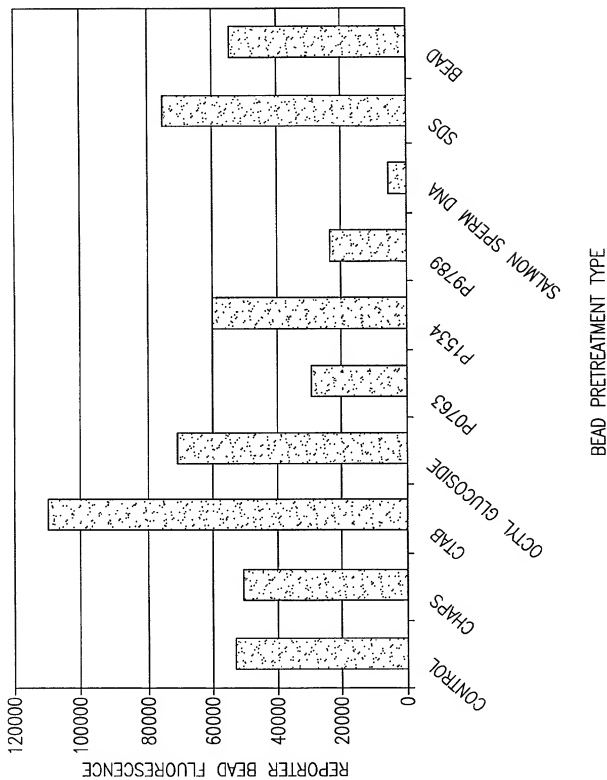


FIG.45

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